FEATURE 241 – CROSSDRAINS					
Roadway Side	**Offsets**	**LRS Package**	**Feature Type**	**Interlocking**	**Secured**
C/R/L	No	No	Point	Yes	Yes
Responsible Party for Data Collection		District Office of Maintenance			

Definition/Background: Describes box culverts with sum total of openings are less than 20 feet and crossdrains. Both are located across roadways for the purpose of draining excess water. If these characteristics are part of a storm sewer system, do not inventory them because they will be captured under Feature 242.

NOTE: *If the above characteristics are located at a rest area, ramp, or other applicable sub-section, they are to be inventoried against the applicable sub-section number. They are normally inventoried using the center point of the right side for the milepoint data. Exceptions are when the crossdrains are on the left side only of a divided highway.*

CULVERTS

BOXCULHT – BOX CULVERT HEIGHT

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes	N/A	N/A

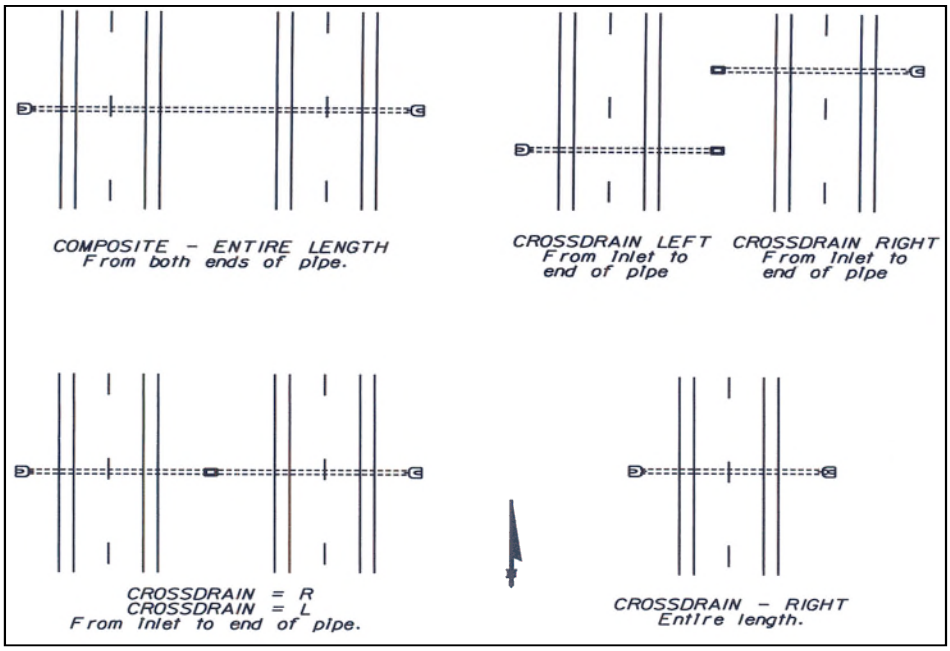
Offset Rules:

Code C – when pipe is across the entire roadway.

Code R – when pipe is across the right side of a divided highway only.

Code L – when pipe is across the left side of a divided highway only.

Code R and code L – will be used when the crossdrain pipe is connected in the median by an inlet.



How to Gather this Data: Enter the box height to the nearest foot.

Dimensional Accuracy: 1 foot

Value for Box Culvert Height: 3 Bytes: XX.X

BOXCULLT – BOX CULVERT WIDTH

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes	N/A	N/A

How to Gather this Data: Enter the box width to the nearest foot.

Dimensional Accuracy: 1 foot

Value for Box Culvert Width: 3 Bytes: XX.X

BXCULGTH – BOX CULVERT LENGTH

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes	N/A	N/A

How to Gather this Data: Measure the box length, from outside headwall to outside headwall. Enter the box length to the nearest two feet.

Dimensional Accuracy: 2 feet

Value for Box Culvert Length: 3 Bytes: XXX

NOBXCULV – NUMBER OF BOX CULVERTS

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes	N/A	N/A

How to Gather this Data: Enter the number of box culverts. Box culverts have a sum of openings less than 20 feet, such as one box culvert has three openings and each are 6' then 6'+6'+6' = 18'. If the sum total of the openings are greater than 20 feet then it is considered a bridge, it should have a bridge number assigned shown on the structure, and should be on the SLD. It is captured under Feature 258 Structures. Always check with the Bridge Department to be sure.

Value for Number of Box Culverts: 2 Bytes: XX

Multiple cells

CROSSDRAINS

CRSDRLGH – LENGTH OF CROSSDRAIN PIPES

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes	N/A	N/A

How to Gather this Data: Measure the crossdrain length, from outside headwall to outside headwall. Enter the length of the crossdrain to the nearest two feet.

Dimensional Accuracy: 2 feet

Value for Length of Crossdrain Pipes: 3 Bytes: XXX

NOCRDRAN – NUMBER OF CROSSDRAIN PIPES

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes	N/A	N/A

How to Gather this Data: Enter the number of crossdrains.

Value for Number of Crossdrain Pipes: 2 Bytes: XX

Non-circular

Circular

Circular

PIPES

PIPETYPE – TYPE OF PIPE

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes	N/A	N/A

How to Gather this Data: Enter the type of material from which the pipe is constructed. Effective 2017

Codes	Descriptions	Codes	Descriptions
01	Corrugated Metal	**03**	Cast Iron
02	Concrete	**04**	PVC (Effective April 2017)

PIPEDIAM – PIPE DIAMETER

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes	N/A	N/A

How to Gather this Data: Enter the circular pipe diameter in inches.

Value for Pipe Diameter: 3 Bytes: XXX

PIPEHIGH – NON-CIRCULAR PIPE HEIGHT

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes	N/A	N/A

How to Gather this Data: Enter the non-circular pipe height in inches.

Value for Non-Circular Pipe Height: 3 Bytes: XXX

PIPEWDTH – NON-CIRCULAR PIPE WIDTH

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes	N/A	N/A

How to Gather this Data: Enter the non-circular pipe width in inches.

Value for Non-Circular Pipe Width: 3 Bytes: XXX